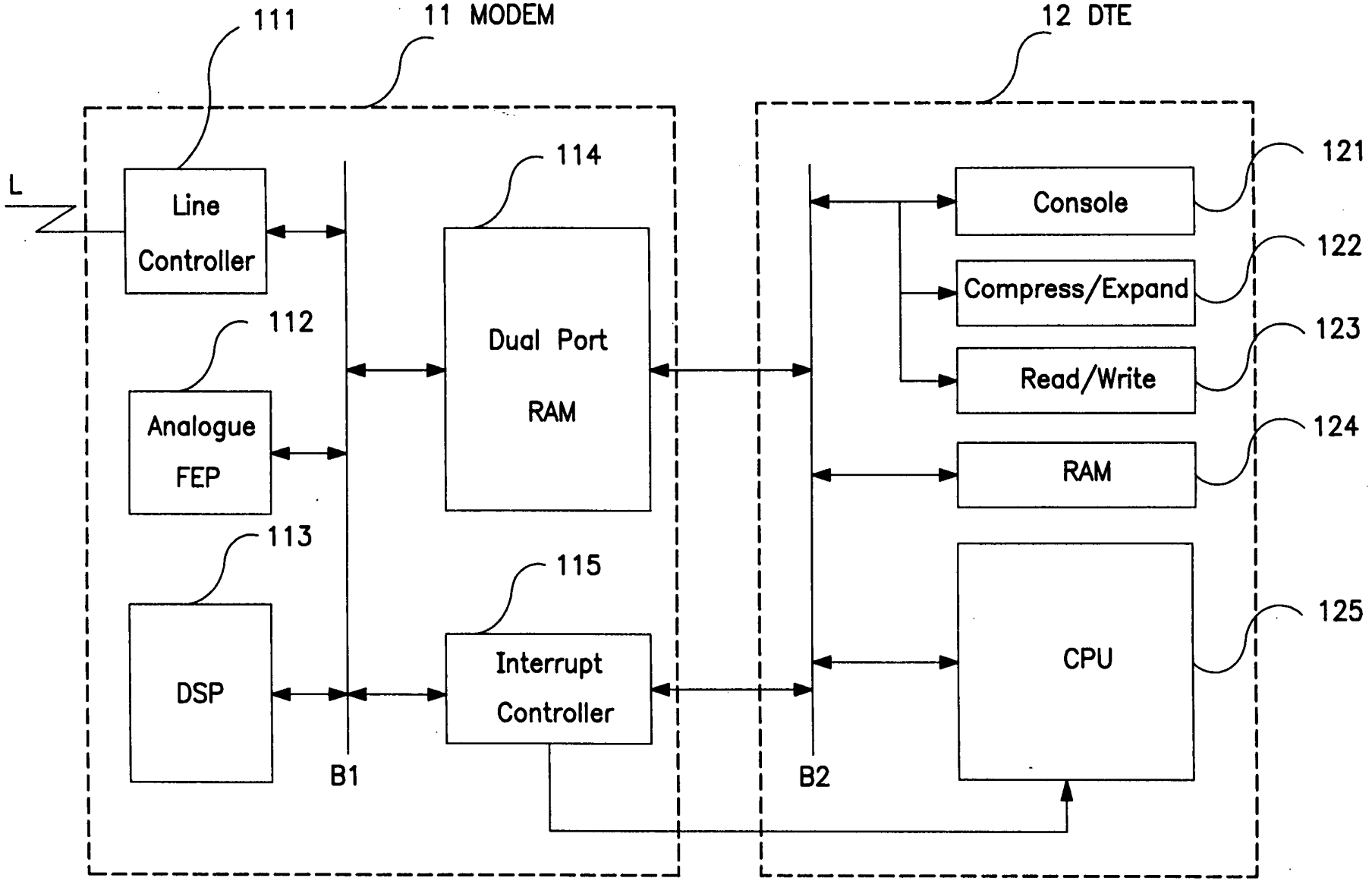


FIG. 1

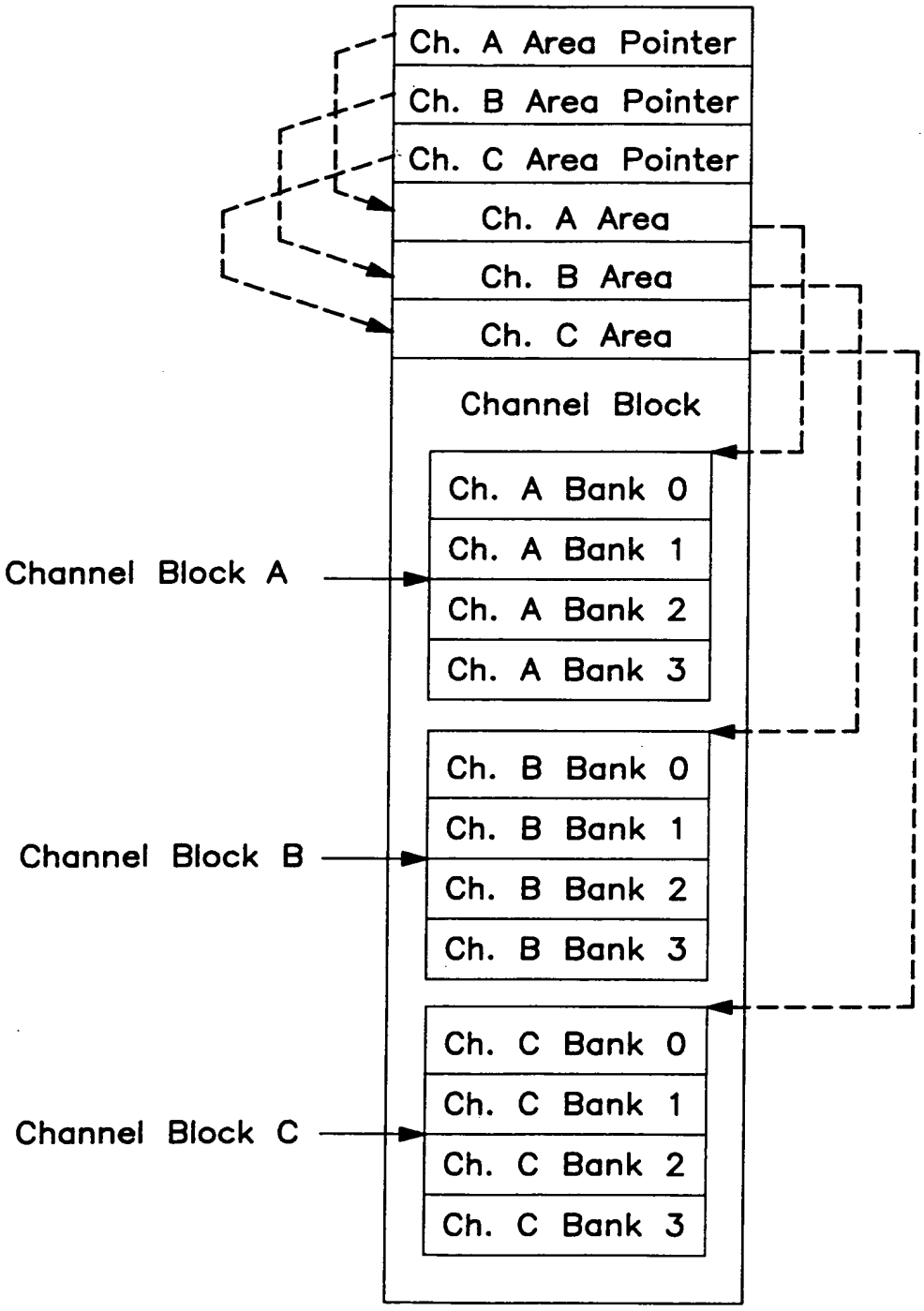

Ch. A Area Pointer
Ch. B Area Pointer
Ch. C Area Pointer
Ch. A Area
Ch. B Area
Ch. C Area
Channel Block
Ch. A Bank 0
Ch. A Bank 1
Ch. A Bank 2
Ch. A Bank 3
Channel Block A
Ch. B Bank 0
Ch. B Bank 1
Ch. B Bank 2
Ch. B Bank 3
Channel Block B
Ch. C Bank 0
Ch. C Bank 1
Ch. C Bank 2
Ch. C Bank 3
Channel Block C

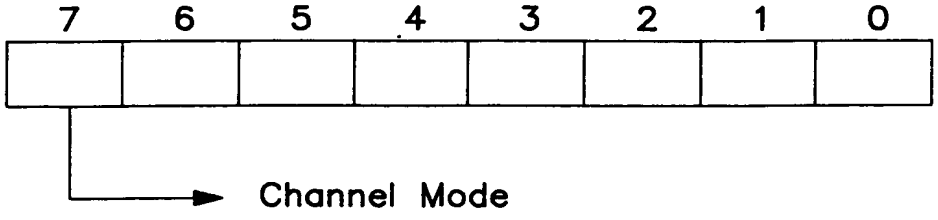
FIG. 2

Channel Area

Channel Command
Channel Status
Bank 0 Top Address
Bank 0 End Address
Bank 1 Top Address
Bank 1 End Address
Bank 2 Top Address
Bank 2 End Address
Bank 3 Top Address
Bank 3 End Address

FIG. 3

Channel Command



Channel Mode

0: receiving mode

1: transmitting mode

FIG. 4

Channel Status

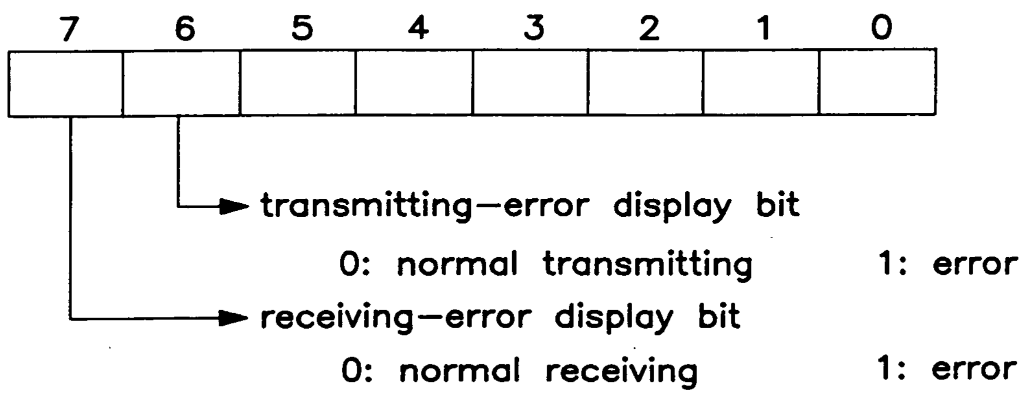


FIG. 5

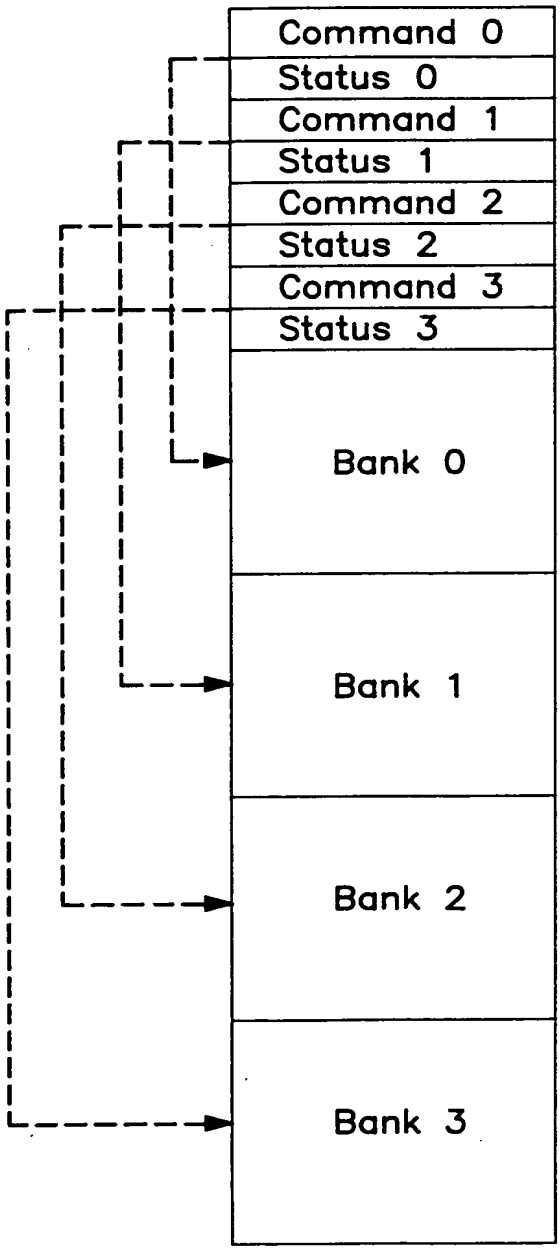

Command 0
Status 0
Command 1
Status 1
Command 2
Status 2
Command 3
Status 3
Bank 0
Bank 1
Bank 2
Bank 3

FIG. 6

Channel 0

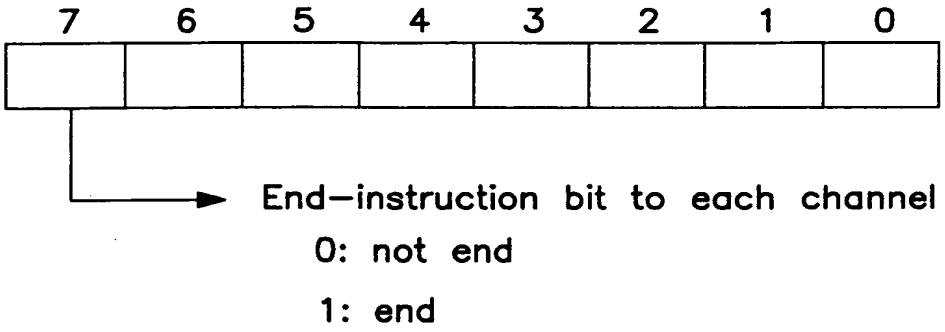


FIG. 7

Status 0

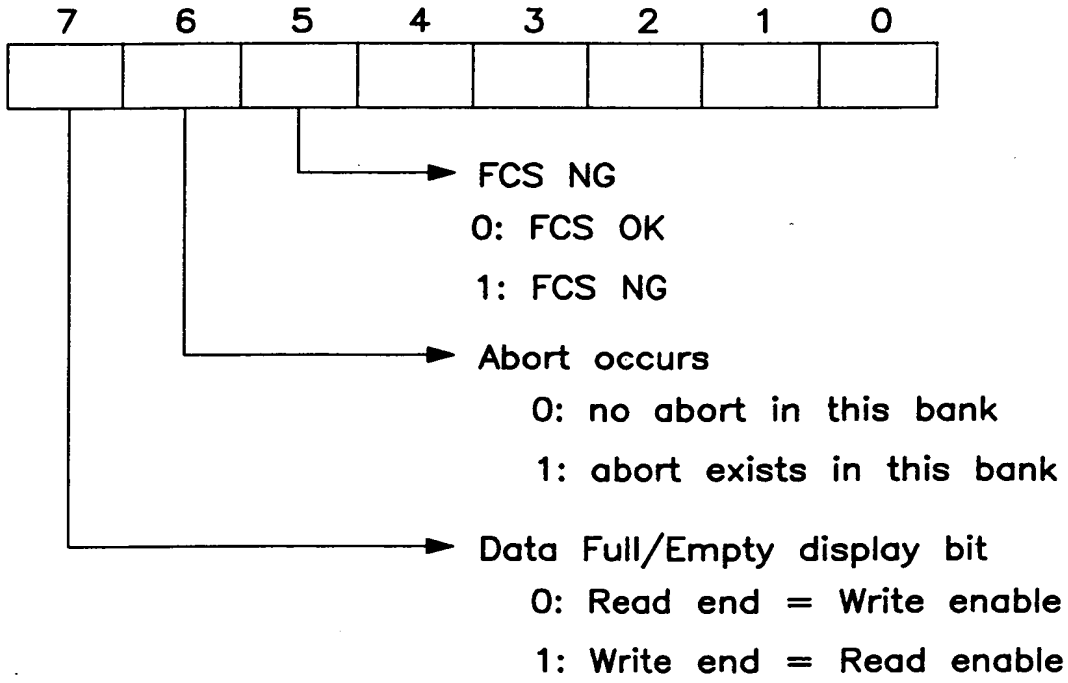


FIG. 8

Transmitting Interrupt Status

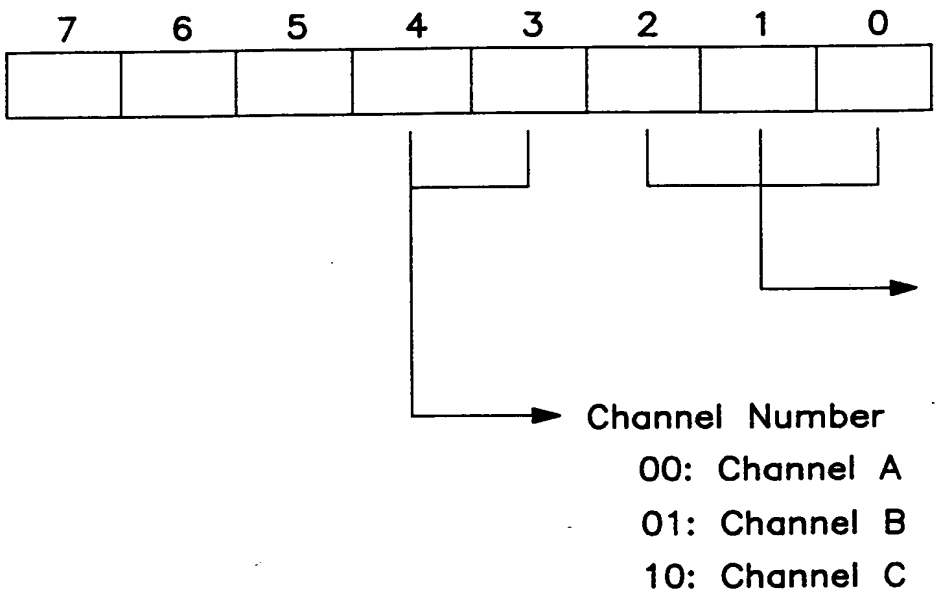


FIG. 9

Receiving Interrupt Status

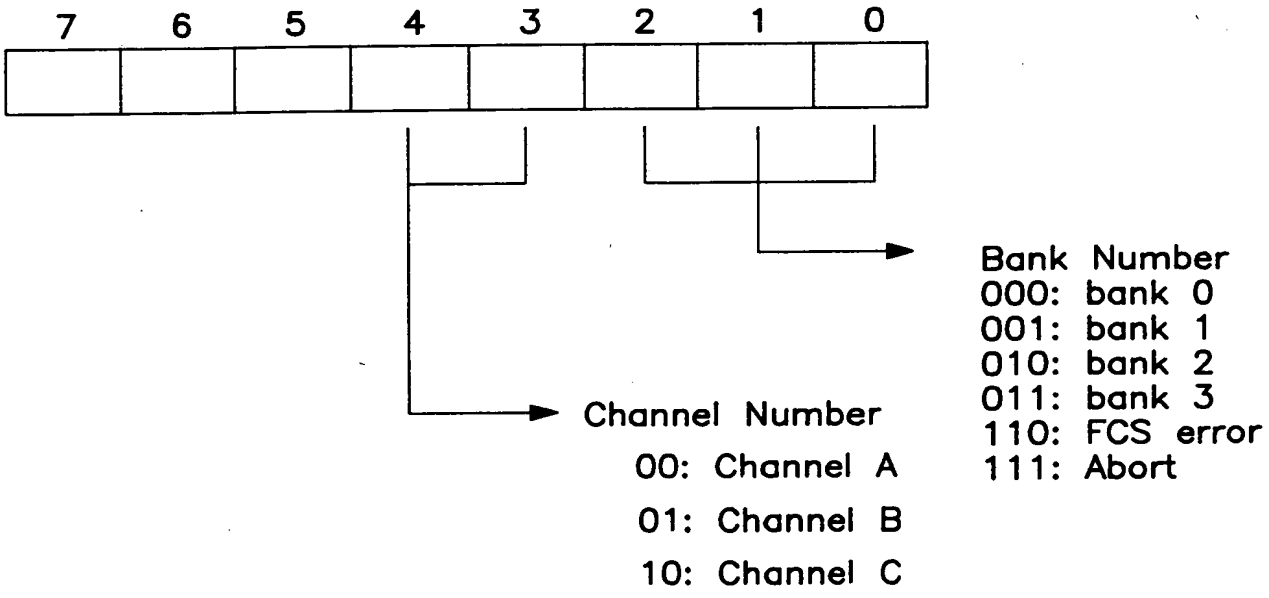


FIG. 10

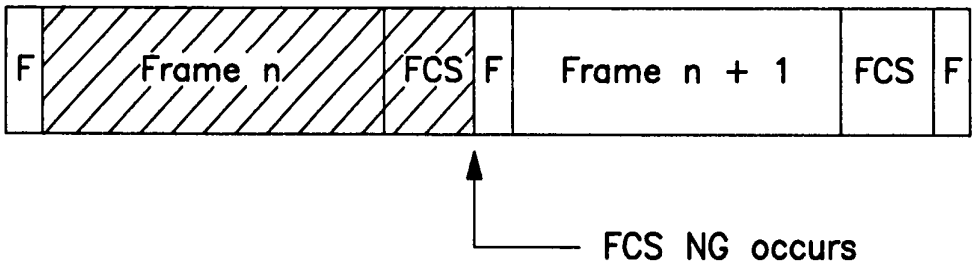


FIG. 11

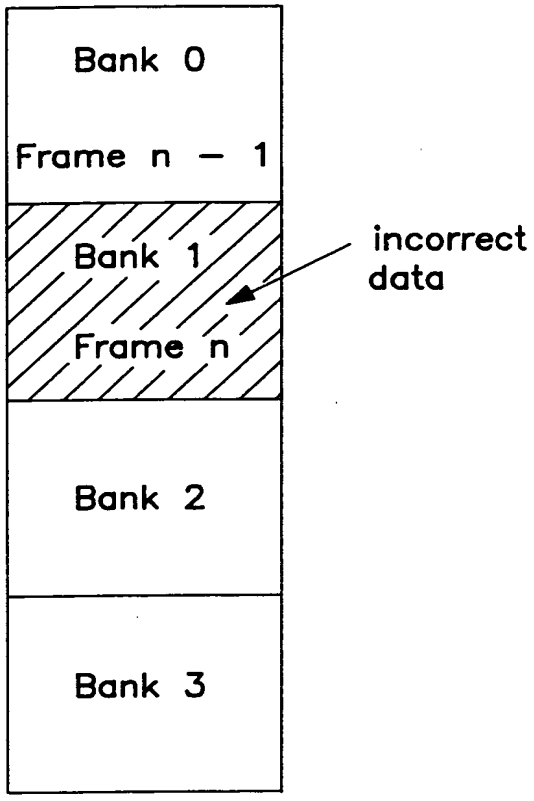


FIG. 12 (a)

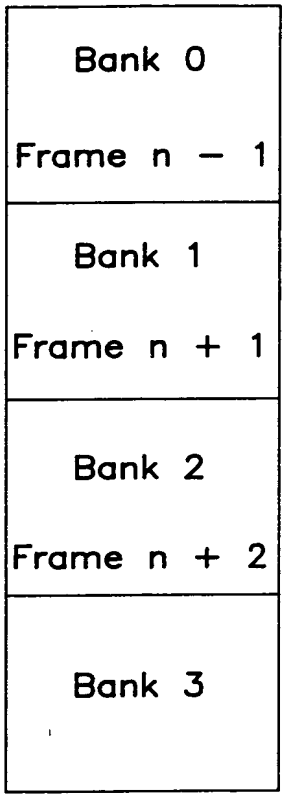


FIG. 12 (B)

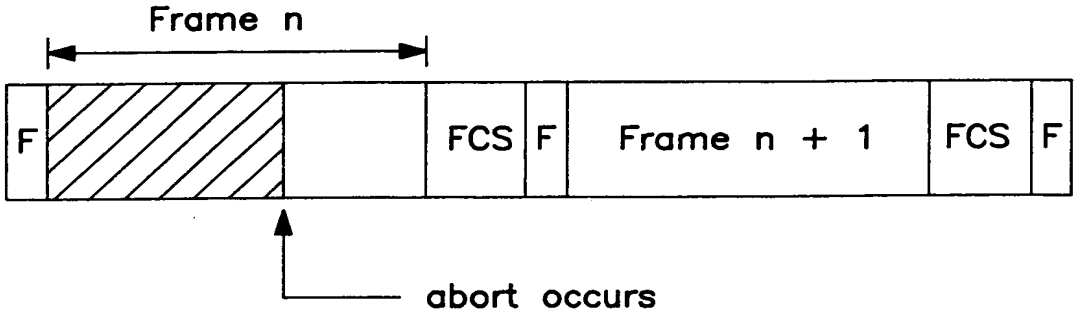


FIG. 13

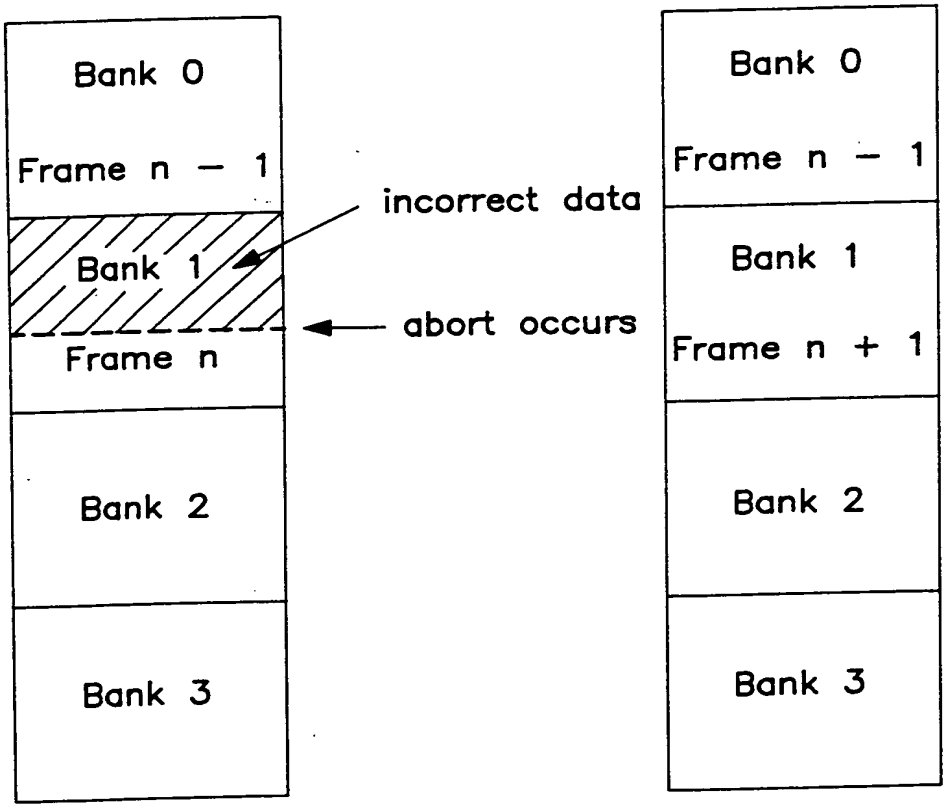


FIG. 14 (a)

FIG. 14 (B)

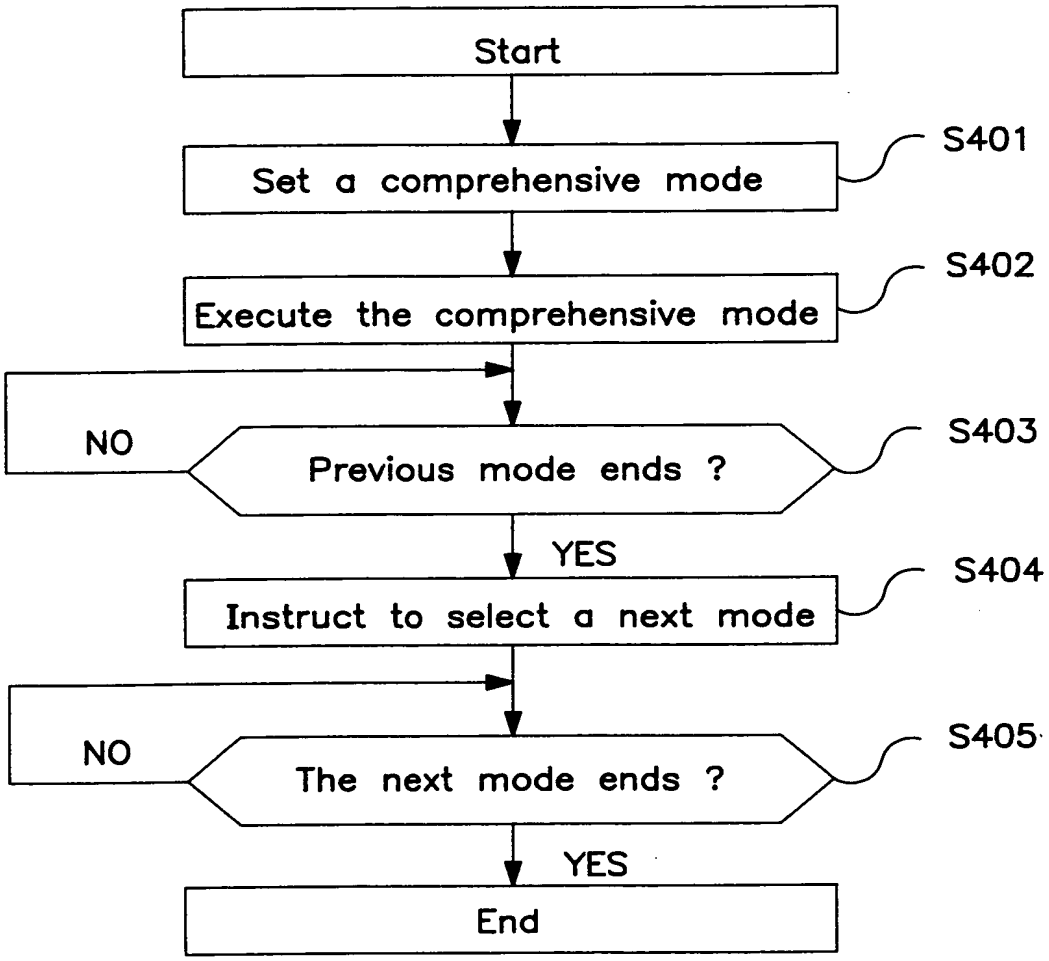

Start
Set a comprehensive mode
S401
Execute the comprehensive mode
S402
NO
Previous mode ends ?
S403
YES
Instruct to select a next mode
S404
NO
The next mode ends ?
S405
YES
End

FIG. 15

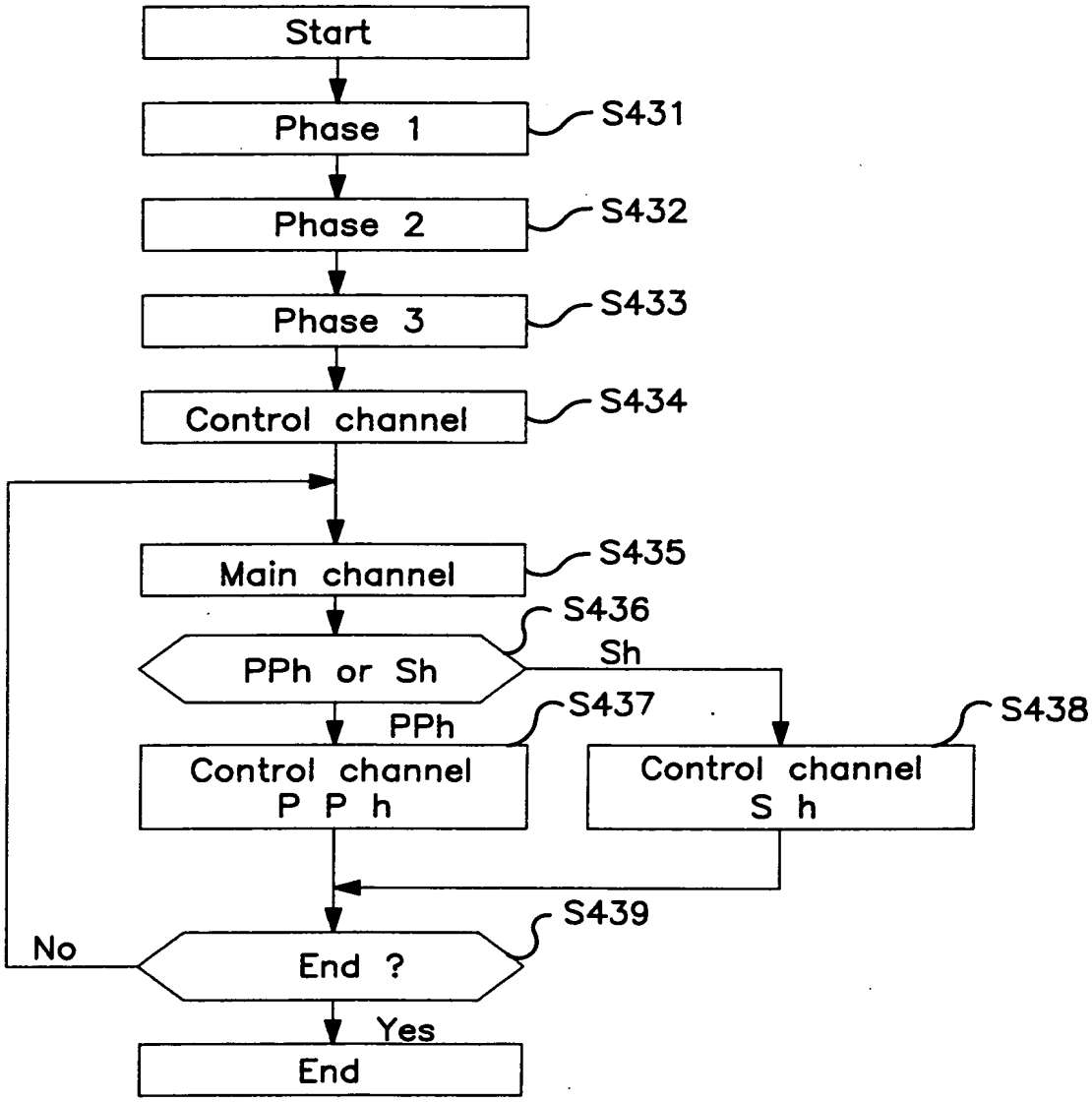

Start
Phase 1
S431
Phase 2
S432
Phase 3
S433
Control channel
S434
Main channel
S435
S436
PPh or Sh
Sh
S437
PPh
S438
Control channel
P P h
Control channel
S h
S439
No
End ?
Yes
End

FIG. 16

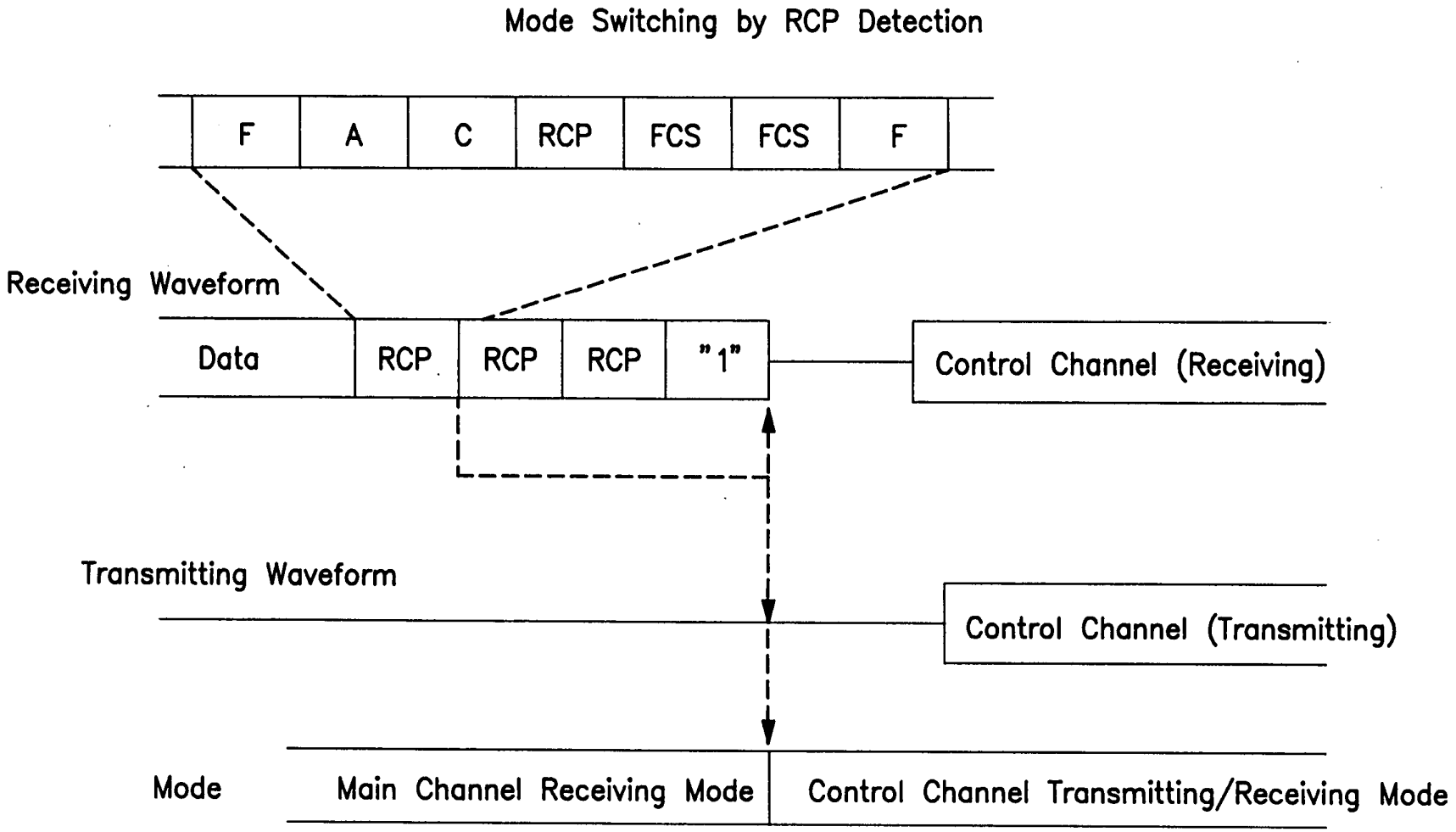

Mode Switching by RCP Detection
F
A
C
RCP
FCS
FCS
F
Receiving Waveform
Data
RCP
RCP
RCP
"1"
Control Channel (Receiving)
Transmitting Waveform
Control Channel (Transmitting)
Mode
Main Channel Receiving Mode
Control Channel Transmitting/Receiving Mode

FIG. 17

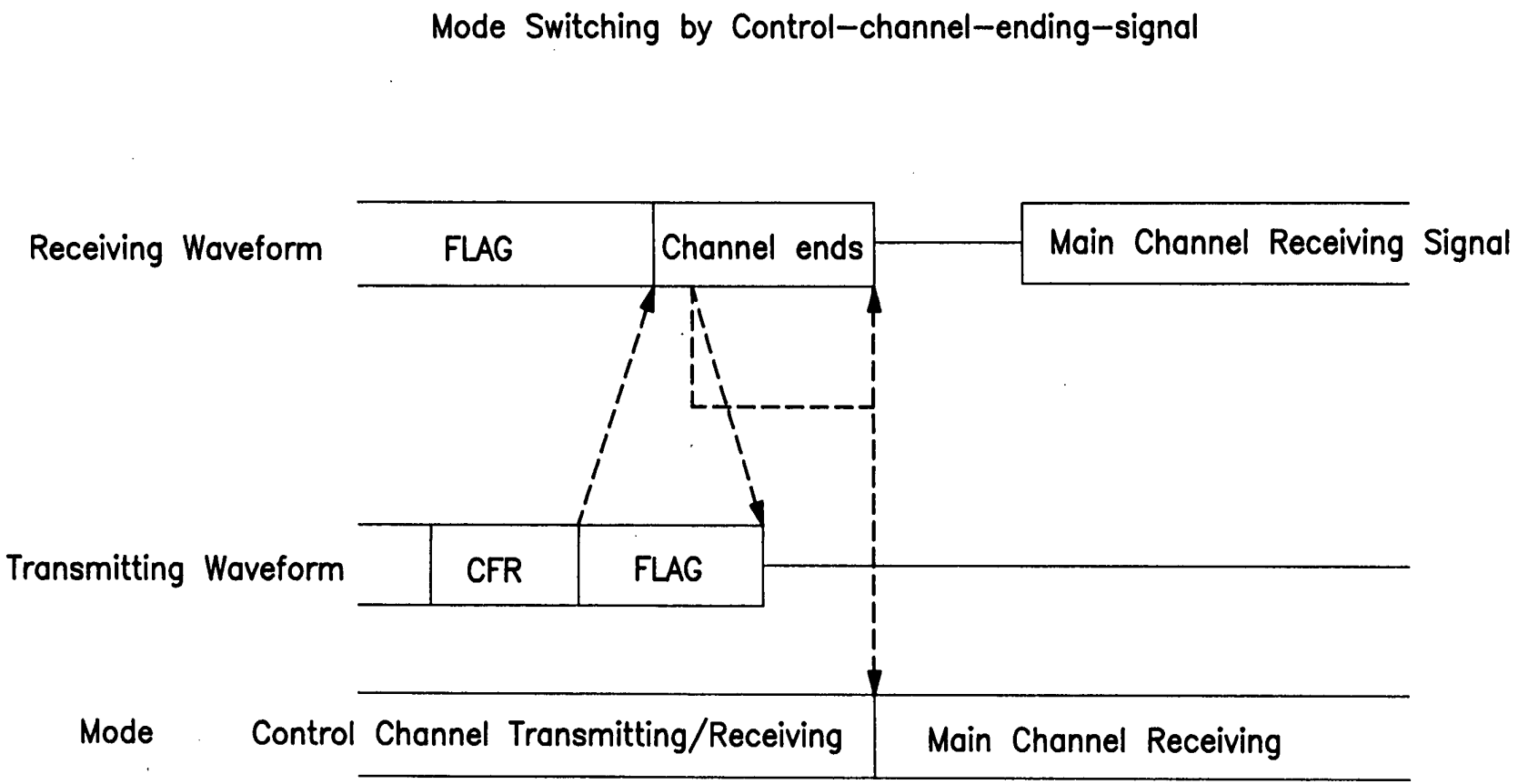
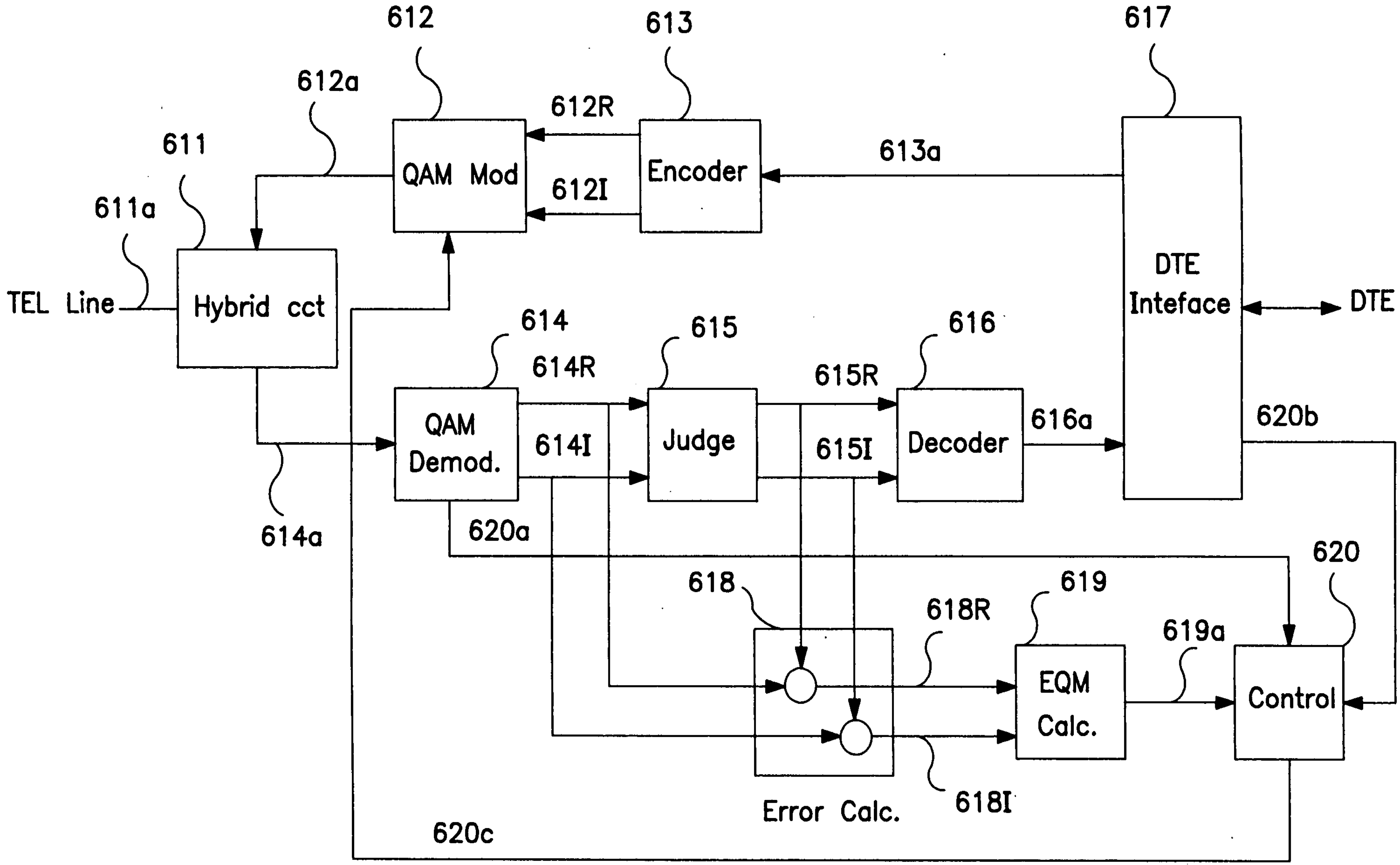


FIG. 18



612
613
617
612a
612R
611
QAM Mod
Encoder
613a
611a
612I
DTE
Inteface
DTE
TEL Line
Hybrid cct
614
615
616
614R
615R
QAM
Demod.
Judge
Decoder
616a
620b
614I
615I
614a
620a
620
618
619
618R
619a
EQM
Calc.
Control
Error Calc.
618I
620c

FIG. 19

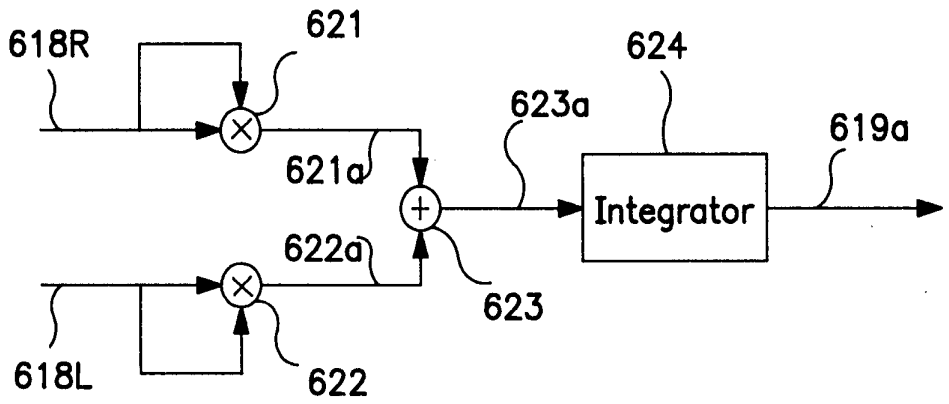


FIG. 20

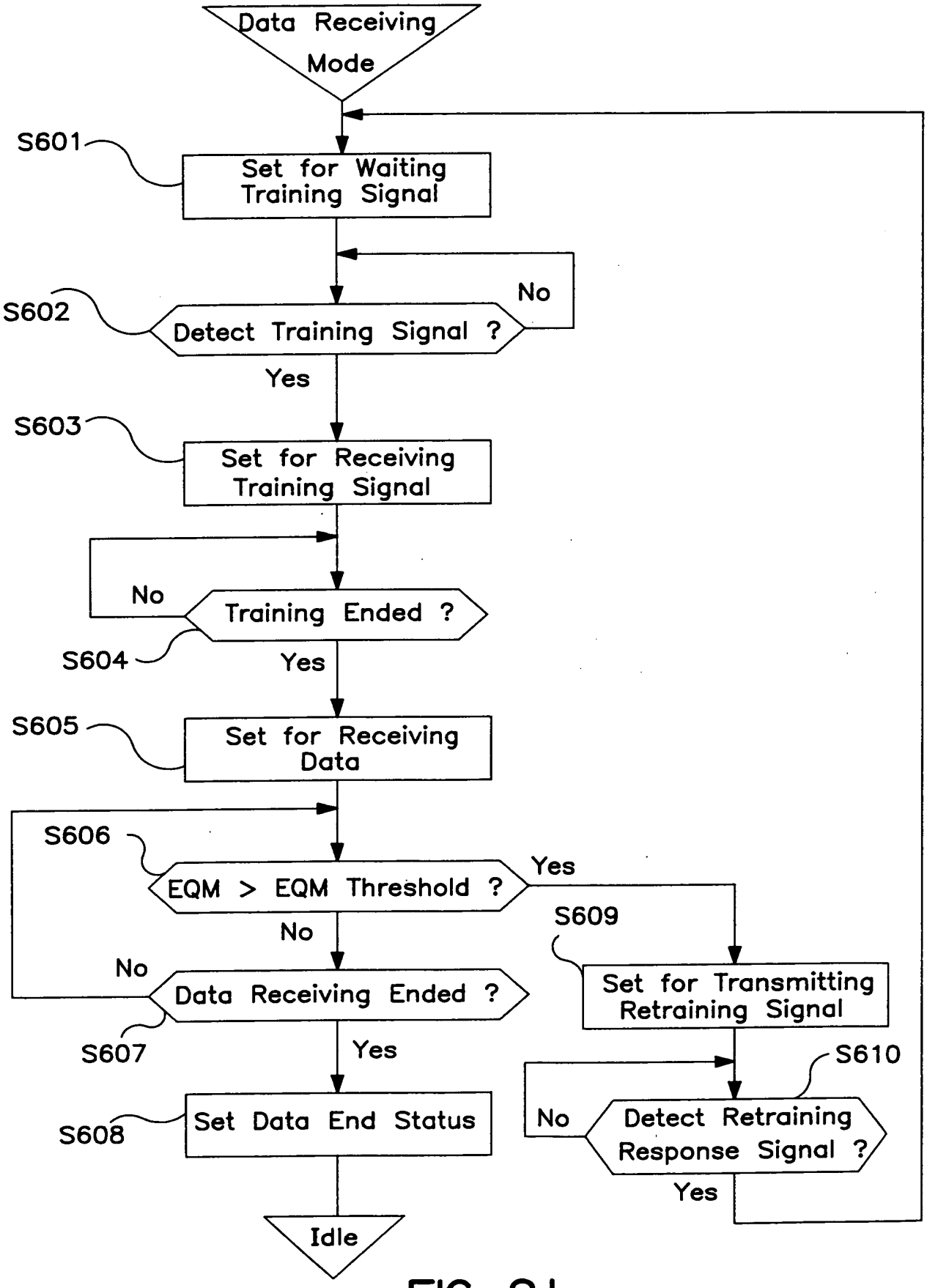

Data Receiving Mode
S601
Set for Waiting Training Signal
S602
Detect Training Signal ?
No
Yes
S603
Set for Receiving Training Signal
No
Training Ended ?
S604
Yes
S605
Set for Receiving Data
S606
EQM > EQM Threshold ?
Yes
No
S609
Set for Transmitting Retraining Signal
No
Data Receiving Ended ?
S607
Yes
S610
No
Detect Retraining Response Signal ?
Yes
S608
Set Data End Status
Idle

FIG. 21

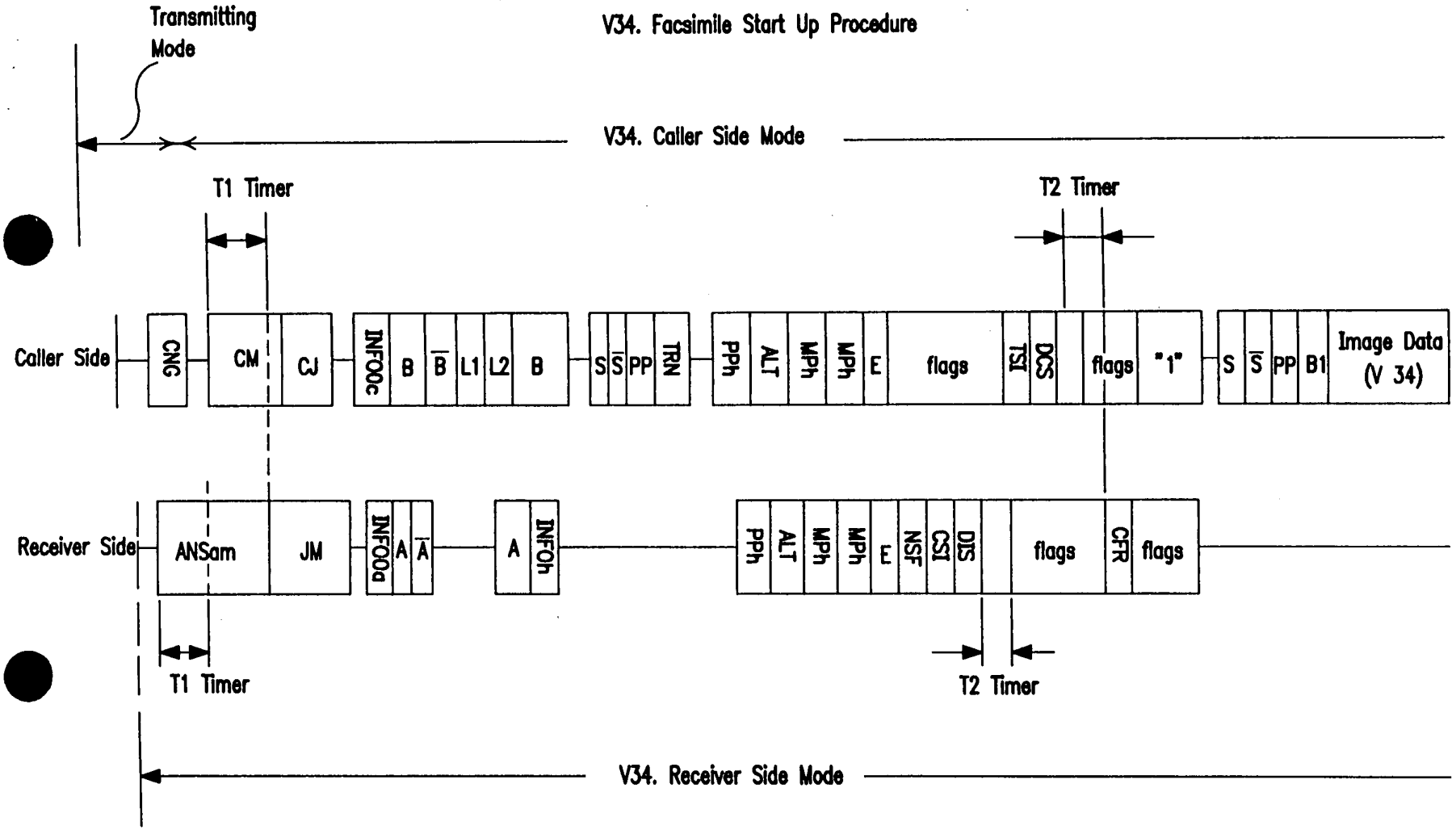


FIG. 22